

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
7 February 2002 (07.02.2002)

PCT

(10) International Publication Number
WO 02/11315 A3

(51) International Patent Classification?: **H04B 7/06**

(21) International Application Number: PCT/US01/22527

(22) International Filing Date: 17 July 2001 (17.07.2001)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
09/630,750 2 August 2000 (02.08.2000) US

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(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK,
SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW.

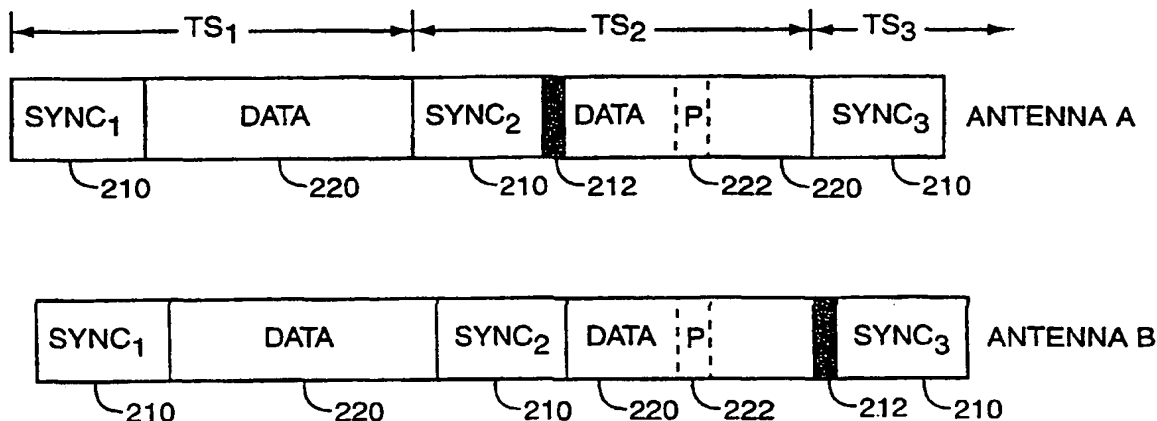
(84) Designated States (*regional*): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian
patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European
patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE,
IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF,
CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD,
TG).

Published:
— with international search report

(88) Date of publication of the international search report:
27 June 2002

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: HYBRID TRANSMIT DIVERSITY



(57) Abstract: An approach to hybrid transmit diversity which involves the transmission of information using different forms of transmit diversity for at least two adjacent time slots is disclosed. A base station transmits information using a first transmit diversity technique during a first time slot and then using a second transmit diversity technique in an adjacent time slot, such as the next subsequent time slot. Thus, a base station may transmit information to mobile terminal X using delay diversity during one time slot and then transmit information to mobile terminal Y using space-time diversity during the next time slot. This approach may also be used to transmit the GSM the FCCH with combined delay diversity and antenna hopping diversity (actual or virtual) while other GSM channels are transmitted with just delay diversity. Methods are also disclosed for accommodating the change in diversity techniques between the time slots that involve either transmitting dummy symbol(s) as part of the data field or stealing symbol(s) from the sync field to use in the data field.



WO 02/11315 A3

INTERNATIONAL SEARCH REPORT

Int. l. Application No

PCT/US 01/22527

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H04B7/06

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04B H04L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, INSPEC, COMPENDEX

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	<p>WO 00 11806 A (ERICSSON INC) 2 March 2000 (2000-03-02)</p> <p>abstract page 5, line 7 - line 23 page 14, line 9 -page 15, line 14; figures 4,5 page 16, line 23 -page 17, line 2 page 18, line 3 - line 9; figure 6 page 19, line 17 -page 21, line 3</p> <p>--- -/--</p>	<p>1,2,5, 30-34 3,4, 6-13, 23-29, 35-37</p>



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

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Date of the actual completion of the international search

22 March 2002

Date of mailing of the international search report

04/04/2002

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 01/22527

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y A	<p>WO 99 59263 A (SAMSUNG ELECTRONICS CO LTD) 18 November 1999 (1999-11-18)</p> <p>abstract page 2, line 20 -page 3, line 9 page 4, line 14 - line 21 page 6, line 21 -page 8, line 9; figures 1A,1B page 11, line 10 - line 18; figure 2 page 12, last line -page 14, line 1; figure 3</p>	<p>1-6, 14-22 7-13, 35-37 30-34</p>
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A	<p>THOMPSON J S ET AL: "DOWNLINK TRANSMIT DIVERSITY SCHEMES FOR CDMA NETWORKS" VTC 1999-FALL. IEEE VTS 50TH. VEHICULAR TECHNOLOGY CONFERENCE. GATEWAY TO THE 21ST. CENTURY COMMUNICATIONS VILLAGE. AMSTERDAM, SEPT. 19 - 22, 1999, IEEE VEHICULAR TECHNOLOGY CONFERENCE, NEW YORK, NY: IEEE, US, vol. 3 CONF. 50, 19 September 1999 (1999-09-19), pages 1382-1386, XP000922334 ISBN: 0-7803-5436-2 page 1383, left-hand column, line 24 -page 1384, left-hand column, line 4</p>	<p>1-37</p>
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